



EE Vision

Powering Future by Empowering Engineers

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Honorary Chair's Message



IEEE UAE Section has been helping the society to catch up with the technological advancements in the world. Since its inception, **IEEE** has been spreading the technological and scientific awareness throughout UAE through many activities such as, conferences, workshops, symposia, competitions and seminars. This has helped the society to understand the impacts of Information & Communications Technology (**ICT**) in the country and further to enter the world of **ICT** in terms of knowledge transfer and creation. Nowadays, **ICT** is the magic word used to solving economic, political, technical, societal and/or social problems or deficiencies in a system of a country. Actually, it can penetrate into any business and revive its stagnant processes in order to stabilize these systems and improve them to become more efficient and robust. This is the reason why we like to emphasize on topics that are scientifically technical in theory and technologically centric in nature. Targeting the youth should be the priority of this awareness campaign for them to seek the path of science and technology in order to improve present lifestyles for the betterment of humankind and help the future generations to secure sustainable growth with the emphasis on quality of life for each human being. Consequently, **IEEE** has played this role to spread the word of technology and science in the schools in UAE. These kinds of initiatives, such as Smart Learning and Smart Government play a very important role in the human capital development & prosperity in the country. We, at **IEEE**, like to introduce to the youth the importance of technology in the development of societies and the solutions of the day-to-day economic problems encountering the world. UAE's initiative to establish Sheikh Mohammed Bin Rashid's Smart Learning Project is the key element to preparing the students' foundations towards the ever changing world of technological advancements.

I hope for the best and encourage the readers and participants to contribute to the betterment of our societies.

Dr. Eesa Mohammed Al Bastaki - Honorary Chair, UAE Section



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IEEE UAE Section Statistics

| Membership Grade | No. of Members |
|------------------|----------------|
| Affiliate | 21 |
| Associate | 25 |
| Fellow | 2 |
| Graduate Student | 126 |
| Member | 765 |
| Senior Member | 112 |
| Student Member | 668 |
| Total | 1719 |

IEEE UAE Executive Committee

Dr. Eesa M. Bastaki

Honorary Chair
e.bastaki@ieee.org

Engr. Maryam A. Al-Thani

Chair
mthani@ieee.org

Dr. Hussain Al-Ahmad

Vice-Chair
alahmad@kustar.ac.ae

Engr. Essa I. Basaeed

Secretary
ebasaeed@ieee-uae.com

Mr. Adeel Sultan

CFO & Chair, Membership
Development
adeel_sultan@ieee.org

Engr. Mohammed Ayoub

Chair, Young Professionals
m_ayoub@duba1.ae

Dr. Abdullatif Glass

Chair, Nominations & Awards
aglass@ieee.org

Prof. Mahmoud Al-Qutayri

Chair, Student Activities
mqutayri@kustar.ac.ae

Prof. AbdulRahman Al-Ali

Chair, IEEE UAE Conference
Publications and Proceedings
aali@aus.edu

Dr. Wathiq Mansoor

Chair, Technical Activities
wmansoor@aud.edu

Dr. Hend Al-Qemzi

Chair, IEEE Women in Engineering
hend.alqamzi@uaeu.ac.ae

Engr. Eesa Al Suwaidi

Chair, Event Management, & Chair,
Secondary School Activities
Development
essaym@eim.ae

Matar Suhail Al Mehairi

Industrial Relation Officer
Matar.AlMehairi@dewa.gov.ae

Dr. Nazih Khaddaj Mallat

Chair, Technical Chapters & Chair,
Microwave Theory and Techniques
Society Chapter
nazih@ieee.org

Engr. Tazeen Sharif

Chair, UAE Section Newsletter
tazeen.sharif@ieee.org

Dr. Manar Abu Talib

Webmaster
manar.abutalib@gmail.com

Technical Chapter Statistics

Signal Processing / Communication Joint Chapter

| | | |
|---|---|----------------|
|  | Prof. Bayan Sharif Chair bayan.sharif@kustar.ac.ae | 221 Members |
|---|---|----------------|

Computer Society Chapter

| | | |
|---|--|----------------|
|  | Dr. Hassan Al-Muhairi Chair hassan.almuhairi@kustar.ac.ae | 132 Members |
|---|--|----------------|

Education Chapter

| | | |
|---|---|---------------|
|  | Dr. Jason Ng Chair jason.ng@bt.com | 21 Members |
|---|---|---------------|

Control-Power Electronics Joint Chapter

| | | |
|---|---|---------------|
|  | Dr. Kahtan Aziz Chair kahtanaziz@hotmail.com | 40 Members |
|---|---|---------------|

Circuits and Systems

| | | |
|---|--|---------------|
|  | Dr. Kahtan Mezher Chair kamezher@kustar.ac.ae | 25 Members |
|---|--|---------------|

Engineering in Medicine & Biology Society Chapter

| | | |
|---|---|---------------|
|  | Dr. Kinda Khalaf Chair kinda.khalaf@kustar.ac.ae | 28 Members |
|---|---|---------------|

Microwave Theory and Techniques Society Chapter

| | | |
|---|--|---------------|
|  | Dr. Nazih Khaddaj Mallat Chair nazih@ieee.org | 18 Members |
|---|--|---------------|

Power & Energy Society Chapter

| | | |
|---|---|----------------|
|  | Eng. Fatima Al Dhaheri Chair fatimaa@aadc.ae | 105 Members |
|---|---|----------------|

Robotics and Automation Chapter

| | | |
|---|--|---------------|
|  | Dr. Nikolaos Mavridis Chair nmav@alum.mit.edu | 28 Members |
|---|--|---------------|

Instrumentation & Measurement Society Chapter

| | | |
|---|---|---------------|
|  | Prof. Ehab H.E. Bayoumi Chair ehab.bayoumi@gmail.com | 33 Members |
|---|---|---------------|

Solid-State Circuits Society Chapter

| | | |
|---|--|---------------|
|  | Dr. Aiman M Shabra Chair ashabra@masdar.ac.ae | 14 Members |
|---|--|---------------|

UAE Section Events

IEEE UAE Education Society held International iCampus Symposium on “SMART LEARNING” in support of UAE Smart Education Initiatives

Under the patronage of H.H. Sheikh Hamed bin Zayed Al Nahyan, Chief of the Abu Dhabi Crown Prince’s Court and Deputy Chairman of Khalifa University’s Board of Trustees, the international iCampus Symposium on “Smart Learning” (IC’13) was held from 24-25 of November 2013 in Yas Viceroy Hotel, Abu Dhabi, UAE. This international educational conference was organized by the IEEE UAE Education Society, in collaboration with Etisalat BT Innovation Center (EBTIC), Ankabut, and Khalifa University. It is in partnership with the Abu Dhabi Educational Council (ADEC), the Abu Dhabi Centre for Technical and Vocational Education and Training (ACTVET), the Mohammed Bin Rashid Smart Learning Program, and ICT Fund. This is the first time the event was being held in the Middle East.

This annual IC conference series is part of the International iCampus Initiative towards Smarter Education (www.intelligentcampus.org) founded and led by Dr Jason Ng in EBTIC – a joint research and innovation centre established by Etisalat, British Telecom and Khalifa University. Since inception, the event series has been running in Europe (UK), Asia (China), and South-East Asia (Malaysia). For this year, the event is being held in Abu Dhabi, the capital of the UAE, in order to meet the needs of the local context and, more importantly, to align with the education pillar set out in the Abu Dhabi 2030 and the UAE 2021 visions.

“The central theme of this year IC’13 symposium is set on Think Globally, Act Locally – The big piCTure in Education,” said Dr Jason Ng, IC’13 General Chairperson and IEEE UAE Education Society Chair. “In other words, the big ICT picture in smarter education, from a view with a globalized mindset to transformation with a localized action.” He added, “In support of the recent launch of the UAE Smart Learning Initiative, the two-day sponsored event is opened to all within the education domain. It offers all like-minded stakeholders a forum to exchange ideas, insights and experiences, as well as to explore multidisciplinary research and innovation within the context of smarter education.”

To facilitate this, the two-day event is composed of both the academic and industry domains structured into four main sessions, namely the (a) invited keynote/speaker session, (b) roundtable/panel session, (c) research papers/posters session, and (c) exhibition/showcase session. Some of the topics of discussion include “The Global Climate Change in Education,” and featured presentations on “Smart Learning Program: Snapshots of the Real Implementation” by Mr. Mohammed Gheyath, Director General of Mohammed Bin Rashid Smart Learning Program in the UAE, and “Delivering Knowledge and Fast Food in the 21st Century” by Prof. Rob Reilly, IEEE Division VI Director-Elect and IEEE Board of Directors, former President of IEEE Education Society, and visiting scientist for the MIT Center for Educational Computing Initiatives, from the USA. Other topics from the industry domain include notable speakers from Intel Education, Microsoft Worldwide Education, Google Enterprise, IBM Research, and several others.

As an appreciation and recognition for playing key functional roles in the success of the event, Prof. Manuel Castro, the president of the IEEE Education Society, has also formally awarded the officers of the IEEE UAE Education Society (Chapter chair: Dr Jason Ng, Chapter vice-chair: Dr Ahmed Dabbagh, Chapter secretary: Dr George Wesley Hitt, and Chapter treasurer: Dr Paul Yoo), during the IC’13 closing award ceremony, in recognition for their distinguished contributions and leadership in support of the Society’s Chapter in the IEEE United Arab Emirates Section.

Special thanks also go to our gold sponsors: Emirates Advanced Investments Group (EAIG), Tawazun, and ADEC; our silver sponsors and media partners: Polycom and FVC; and our bronze sponsors: Springer and TechKnowledge, whom have aided in making this event a success for the benefit of the region.

Dr. Jason Ng – Chair, IEEE UAE Education Society Chapter



Seminars Conducted by IEEE UAE Computer Society

Four seminars were conducted by the IEEE UAE Computer Society Chapter in the year 2013. These seminars were held at Khalifa University, Sharjah Campus.



| | |
|-----------|---|
| 23 Jan 13 | Title: Recent Advances in the Security of Computer Networks and Samples of Some of our Recent Related Works Speaker: Professor Mohammad S. Obaidat, IEEE Fellow and SCS Fellow |
| 14 Feb 13 | Title: Multi-Dimensional Evolutionary Feature Synthesis For Content-Based Image Retrieval Speaker: Prof. Serkan Kiranyaz - Signal Processing Department, Tampere University of Technology, Tampere, Finland. |
| 21 May 13 | Title: Springer Authors Workshop Speaker: Chris Bendall (Springer Senior Editor, Middle East) & Dr Warren Raye (Edanz Publishing, Senior Editor) |
| 12 Jun 13 | Title: Visual Media Processing at MICC: Overview of Research Activities and Recent Results on 3D Recognition Speaker: Dr. Stefano Berretti - Associate Professor, Dipartimento di Ingegneria dell'Informazione (DINFO) of the University of Firenze, Italy |

Dr. Hassan Al-Muhairi – Chair, IEEE UAE Computer Society Chapter

Volunteer Training Workshop

The Volunteer Training Workshop was organized as part of the continuous effort of UAE section officers to enlarge and empower its circle of active IEEE members. The event was held in Villa Rotana, Dubai on Nov. 16, 2013 and attended by UAE Ex-Com members, faculty and students. The opening note was delivered by Engr. Maryam Al-Thani. Mr. Eesa Basaeed and Mr. Adeel Sultan highlighted the procedure of contributing as an IEEE volunteer on section level and shared their valuable experiences. Dr. Eesa Bastaki concluded the training session by sharing words of wisdom and appreciating the contribution of IEEE members in UAE. The guests enjoyed networking with UAE Ex-Com members during lunch and were awarded certificates of participation.

Workshop on Leadership Skills

The IEEE UAE Section organized a three-hour interactive Leadership Training Program delivered by Prof. Kurt R. Richter, who is a member of the IEEE Educational Activities Board and member of the Region 8 Educational Activities Committee. The workshop was held on Nov. 16, 2013 at Villa Rotana, Dubai. The event was open to all IEEE members in UAE and was attended by 40 participants.

The objective of this workshop was to develop and practice leadership skills. Initially, Prof. Kurt R. Richter talked about the importance of understanding effective leadership principles/practices in organizations, the image of a leader and elements that he/she should have for team-building. Key topics of the workshop include: building active listening and efficient communication, developing a priority list and getting consensus, developing both personal skills and group skills, overcoming resistance and recognizing conflict styles and efficient way of brainstorming and conflict management

Sewar Dahdal – IEEE Student Member, AUST



Moment of Pride



Ajman University of Science & Technology (AUST) Women In Engineering students raise UAE flag high in IEEE global competition

An achievement that made UAE and AUST proud of its WIE members. The objective of the Global IEEE Day Photo Contest 2013 was to motivate students to initiate, organize and coordinate events taking into consideration the theme of 2013 - *Leveraging Technology for a Better Future*, and submit their pictures for evaluation. The competition was open to all IEEE student branches across the world. 418 entries qualified to the final round and competed for 10 winning positions. AUST Women In Engineering (WIE) members proved themselves to be the best in the world by winning the first place in the competition.

The AUST IEEE WIE members are posing with hand-painted tech logos, painted by Autistic Kids during the Painting Workshop organized for kids at Sharjah Autism Center in Sharjah Humanitarian City as part of the IEEE Day Celebrations. These painted items will be sold in an upcoming fund raising event and the collections will be used to equip the center with PC's and ipad's. The project was conceptualized and directed by Engr. Tazeen Sharif – WIE Counselor & SB Mentor, AUST.

Engr. Tazeen Sharif – WIE Counselor & SB Mentor, AUST

Student Branch News

Al-Ain University of Science & Technology (AAU)

The IEEE AAU Student Branch (formed in April 2013) organized a field trip to Al Yah Satellite Communications Company (Yahsat) which provides multi-purpose satellite solutions for the government and commercial sectors in the Middle East, Africa, Europe and South West Asia.

Eng. Abdelrahman Al Ashli introduced the 18 AAU students to the various services provided by Yahsat such as BSS, the various frequencies used (C band, Ku band, Ka band), the steps followed when launching a satellite, and other interesting information on satellites.

On his part, the trip supervisor, Dr. Nazih Khaddaj Mallat, Assistant Professor at the College of Engineering and Information Technology and Counselor of the IEEE AAU Student Branch, highlighted that the IEEE AAU Student Branch and the College of Engineering pay special attention to the practical side of the learning process through providing all available opportunities for students. He added that the visit was a good opportunity to discuss future cooperation between Yahsat and AAU. Dr. Mallat presented a suggestion to host one of the seniors in the technical team at Yahsat to deliver a presentation at AAU to enhance the students' information in this field.

The IEEE AAU Student Branch members also attended the 4th Engineering Students Renewable Energy Competition 2013 (ESREC 2013) held at United Arab Emirates University. Fifty four teams represented by 183 students from 11 universities from the UAE and abroad took part in the competition.

Dr. Mallat mentioned that ESREC is becoming the focal point for students enrolled in engineering, science, and technology programs in universities and colleges across the UAE in general, and for the AAU students in specific. The students' participating projects focused on the various forms of renewable energy such as solar, wind, fuel cells, and hydrogen.

Dr. Nazih Khaddaj Mallat – Counselor, AAU

Dr. Nazih Khaddaj Mallat (IEEE Senior Member, Assistant Professor, Al Ain University of Science and Technology) formed the IEEE Microwave Theory and Techniques Society (MTT-S) Chapter in UAE on July 25, 2013. The chapter is already included in IEEE database and will be recognized in IEEE MTT worldwide community.



Ajman University of Science & Technology (AUST)

AUST IEEE and WIE members have been well known for their enthusiasm, commitment and thirst to learn and excel. Year 2013 has been an activity-packed and also an achievement-packed year. Students have been busy organizing and participating in technical and non-technical activities.

For the 4th consecutive year, AUST engineering students stole the show at the 8th IEEE UAE Student Day, hosted by the University of Sharjah on May 11, 2013. This yearly national event invites students from different institutions in the UAE to compete in various projects and prove their creativity, and analytical and problem solving skills. AUST students maintained their winning streak and grabbed six of fifteen awards. It is worth mentioning that this was the highest number of awards won by any participating institution in the 2013 event. They have been winning the maximum number of awards in this highly prestigious annual competition since 2010.

The Fifth Annual Undergraduate Research Conference on Applied Computing (URC 2013) was held at Zayed University (Dubai campus). In this conference, a total of 182 student research projects were presented including 57 oral presentations and 125 poster presentations. Students from educational institutions in UAE, Saudi Arabia, Jordan, Egypt, Iraq, Palestine, Oman, Kuwait, and Germany participated with their project presentations. AUST Electrical Engineering team from Ajman campus was awarded with the “Best Presentation Award” while the AUST Electrical Engineering team from Fujairah campus was awarded with the “Best Poster Award”. The student team winning the “Best Presentation Award” comprised of three IEEE WIE members, Laila Ghulam, Hibaq Yasin, and Manahil Mustafa, supervised by Dr. Ayman Tawfik. The student team winning the “Best Poster Award” comprised of IEEE members, Abdelrahim Mohammad Abdelrahim and Khalifa Abdulla Suuroor Al Sharqi, supervised by Prof. Ali Abou El-Nour, Deputy-Dean of Fujairah campus, and Engineers Mussab Hasan and Mohamad Rehan Siddiqi.

AUST engineering students began creating legacy in 2009 by winning one of the top three positions in the yearly national-level ethics competition, organized and hosted by Khalifa University. In 2013, AUST IEEE members proved themselves yet again, by winning the second prize. The AUST IEEE winning team comprised two students from Electrical Engineering Department, Omar Majid Khalfan and Abdulla Shapshough, and one student from Biomedical Engineering Department, Abdul Khaliq Ismael. The team was supervised by WIE Counselor - Eng. Tazeen Sharif and Branch Counselor - Prof. Mustahsan Mir. The Head of Electrical Engineering Department and AUST IEEE Branch Counselor, Prof. Mustahsan Mir, also served as the Steering Committee Member for ESEC 2013.

Engr. Tazeen Sharif – WIE Counselor & SB Mentor, AUST

*Ajman University of
Science & Technology will
be hosting the 9th IEEE
UAE Student Day in 2014.*

*This national-level event
will be held on Saturday,
May 10, 2014*



University of Sharjah (UoS)

IEEE Student branch at University of Sharjah has been actively organizing and participating in various events all year round, of which the most significant was hosting 8th IEEE UAE Student Day 2013. Other activities include membership drives, technical and non-technical activities. The key activities are mentioned below.

A field trip to Dubai Cables (DUCAB), under the supervision of Dr. Ahmed Al-Wakil, was organized for students to get acquainted to the manufacturing and use of various cables used in industry and day-to-day life.

IEEE Day celebrations on October 1, 2013, where students and faculty joined together for a fun filled day. The half-day event began with presentations followed by demos of simple projects, games and prizes. The day was wrapped up with a participating picture for IEEE Day Photo Contest 2013.

The IEEE UoS student branch also organized an Alumni meeting and celebrated the UAE National Day in full spirit. One of the more academic events was the robotics workshop where students from the IEEE branch presented their colleagues with a hands on, step-by-step, "How to Build Your Own Robot". Furthermore, students from the UOS IEEE SB attended the 2013 Wetex Conference where more real life applications to different areas of studies were apparent.

Baraa Aljelani –Student Chair, UoS



American University of Sharjah (AUS)

2013 was a very busy year for the IEEE AUS Student Branch. We hosted workshops and went to conferences all around the UAE. Our activities involved technical and nontechnical events for the engineering student body at AUS. Some of the workshops that we hosted included a microcontrollers workshop in March 2013 with the Zero Ohm Company, a 2D game development workshop that lasted for 3 weeks this past September, as well as a MATLAB workshop hosted by AUS professor Dr. Hassan Mir in February 2013. The IEEE AUS Student Branch also organized the First International Conference in Communications and Signal Processing and Their Applications at AUS in February 2013, which was a very successful conference that brought together the experts in the field of communications. As per our traditions, we hosted two trips to GITEX Shopper in October. We also participated in the DBCON Conference organized by Google Developers, in collaboration with MongoDB and Nabbesh, and the Sustainable Energy Options for the UAE Conference, organized by Energy Institute Middle East.

The highlight of 2013 for the IEEE AUS Student Branch was IEEE Recruitment Day on 04-05 November 2013. On that day, we briefed AUS engineering student about IEEE and the benefits of its membership, and we hosted competitions and prize giveaways. At the end of the IEEE Recruitment day, 65 students signed up for the IEEE membership and joined our IEEE AUS Student Branch subcommittees.

Another prime highlight of 2013 was the IEEE Annual Study Tour to Malaysia. The weeklong study tour to Malaysia was open to all engineering students, and it started on May 30th, 2013. Students, along with Dr. Abdulrahman Al-Ali from the CSE Department and Ms. Nevine from the Engineering Dean's Office, toured Malaysia's capital, Kuala Lumpur, its major landmarks and two of Malaysia's most renowned universities, Universiti Putra Malaysia (UTM) and Universiti Teknologi (UITM).

The IEEE AUS Student Branch has been fortunate this year to have hosted many events and organized many activities. We would like to thank Dr. Nasser Qaddoumi, the IEEE AUS Student Branch Counselor, and Dr. Abdulrahman Al-Ali, for their continuous support of the IEEE AUS Student Branch and its events.

Tully & Maha –IEEE Student Member, AUS



American University in Dubai (AUD)

AUD IEEE & WIE members keep themselves busy all round the year by engaging themselves in various technical and leisure activities, like, membership drives, seminars, workshops and fun get-togethers. Some of the key activities organized and attended by AUD IEEE members are listed below:

The Renewable Energy Engineering Talk delivered by Dr. Majid Poshtan, Associate Professor of Electrical Engineering was about the concepts behind creating a clean and a sustainable environment using renewable sources of energy. He involved the audience in mind provoking questions and interesting topics of discussion. The talk ended with a short question and answer session, where attendees were motivated to ask intelligent questions to win prizes.

TU Delft Conference Call was one of the most successful events that built a strong connection between both AUD engineering students and the faculty and students of TU Delft University of Technology in Netherland. Faculty from the TUDelft University spoke about their different programs, internships, and scholarships. Also, part from that, many engineering students from AUD joined TUDelft in the previous years for their masters and internships. This call created a friendly and a collaborative environment between both AUD and TUDelft students.

Dr. Nitin Afzulpurkar, Professor of Mechanical Engineering at AUD, conducted a seminar to highlight the importance of Mechanical Engineering in all aspects of life and how robotics in particular, made engineering more vital. Throughout the talk, Dr. Nitin gave many project examples and recent researches on robotics, which were accomplished with the help of mechanical engineers. In particular, he focused on Artificial Intelligence, which is a living example of how robotics are being high developed and used. Dr. Nitin also spoke about the importance of engineers keeping up-to-date with the latest developments in their fields and connecting to other engineering professionals within the society.

Earth Reborn was the first environmental event to be held by the IEEE AUD SB in collaboration with the AGENCY, Foodies, and BUZZ clubs at AUD. With six main activities, the event was held throughout the day on November 11, 2013 to give AUD students and faculty a chance to show appreciation to Earth.

InternsME Career Workshop was the first career workshop managed by the IEEE SB at AUD since it was established. The speaker was Ms. Nour Younis, media coordinator at Internsme. After this workshop, students acquired great knowledge on how to build and boost their resumes and build a visume – video resume. The speaker also offered tips on professional development and business etiquettes. At the end, the speaker showed some examples of successful creative visume on youtube, encouraging the students to visit InternsME's website and register there.

Mustafa Alloh – Student Chair, AUD



Khalifa University (KU)

KU IEEE Student Branch and members actively participate in many activities both at the University as well as outside. KU IEEE student members are highly enthusiastic and their participation in the various competitions won them many prizes. Some of the major activities and achievements of KU IEEE student members are:

KU students have been actively participating in this exciting event since its inception. Their high competitive drive won them many prizes. This year KU students participated in all competition categories and won 4 prizes. This includes 1st prize in the Senior Design Project, 2nd in Software Engineering, 3rd in Common Design Project, and 3rd in Community Service Project.

The 5th Engineering Students Ethics Competition (ESEC) in the UAE was organized by Khalifa University IEEE Student Branch and sponsored by the Emirates Advanced Investments (EAI). The aim of the competition is to provide the engineering students with an opportunity to demonstrate their appreciation of ethical issues and responsibilities. KU team won the 3rd prize of the competition.

The UAE Forum on Information and Communication Technology Research 2013 (ICTRF2013) was organized by Khalifa University, and co-organized by EBTC and ANKABUT. The forum included a full day for graduate students' research in ICT. A total of 24 papers presentations were made by students from the UAE and abroad. KU IEEE graduate student members won multiple prizes including 1st prizes in the oral as well as poster presentations.

KU IEEE graduate student members played an active role in the 2013 IEEE Conference on Electronics, Circuits, and Systems (ICECS 2013) as well as the associated MSc/PhD Forum. Over 80% of the contributions to the forum were from KU students enrolled on the various MSc and PhD engineer programs at the University. Also a good number of papers by graduate as well as young undergraduate researchers were presented at ICECES 2013. A large group of KU graduate students volunteered and help throughout the two events.

To encourage and support scientific research at the undergraduate level, KU IEEE Student Branch held a student paper contest. The best 2 papers of the seven that were submitted were nominated to IEEE Region 8 Student Paper Contest.

Several activities were organized for students at KU to create a better understanding of the engineering profession and the wide-spectrum of careers it offers. These activities include seminars and fun events like Treasure Hunt Competition and Critical Thinking Contest.

Dr. Mahmoud Al-Qutayri - Associate Dean for Graduate Studies, KU





Upcoming Events & Activities

- Annual General Meeting 2013 19 Jan 2014
- Engineering Students Ethics Competition April 2014
- 9th IEEE UAE Student Day May 10, 2014



For future correspondence, please contact:

Engr. Tazeen Sharif
Chair, Newsletter Editor
tazeen.sharif@ieee.org

Dr. Manar Abu T alib
Webmaster
manar.abutalib@gmail.com

IEEE UAE Website:
www.ieee-uae.com